

**[ABSTRACT]**

5 A positive-working lithographic printing plate precursor is  
disclosed which comprises (i) a grained and anodized aluminum  
support having a hydrophilic surface and (ii) a heat-sensitive  
oleophilic coating provided on the hydrophilic surface, wherein said  
coating is capable of dissolving in an aqueous alkaline developer at  
10 a higher dissolution rate in areas of said coating which are exposed  
to heat or infrared light than in unexposed areas, characterized in  
that the hydrophilic surface has a surface roughness, expressed as  
arithmetical mean center-line roughness  $R_a$ , which is less than 0.40  
 $\mu\text{m}$ . The use of a low surface roughness as defined above provides an  
15 improved shelf life of the coating.